



FIG. 1A

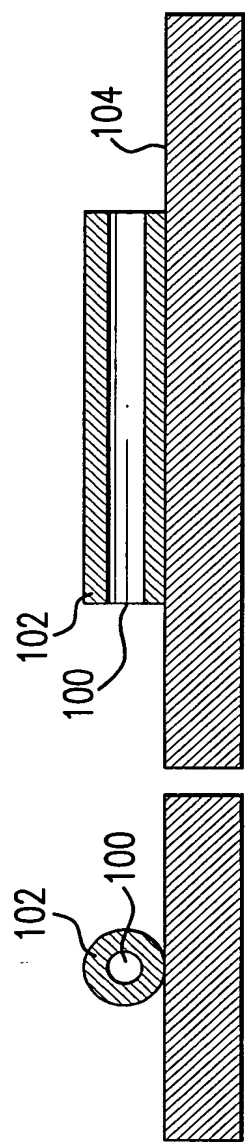


FIG. 1B

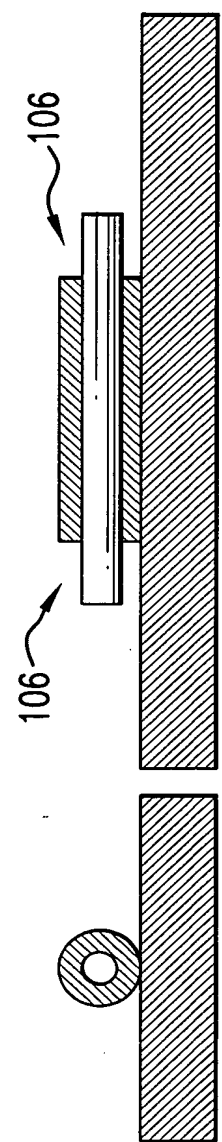


FIG. 1C

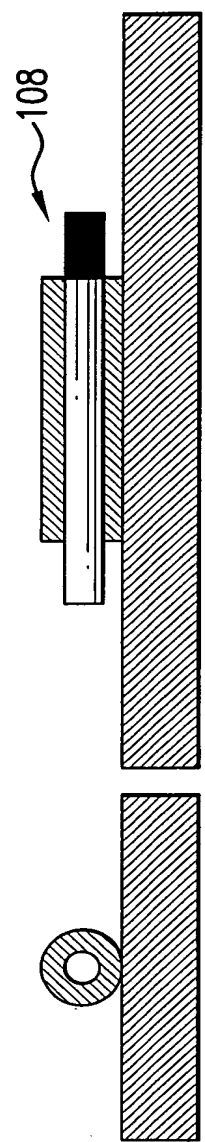


FIG. 1D

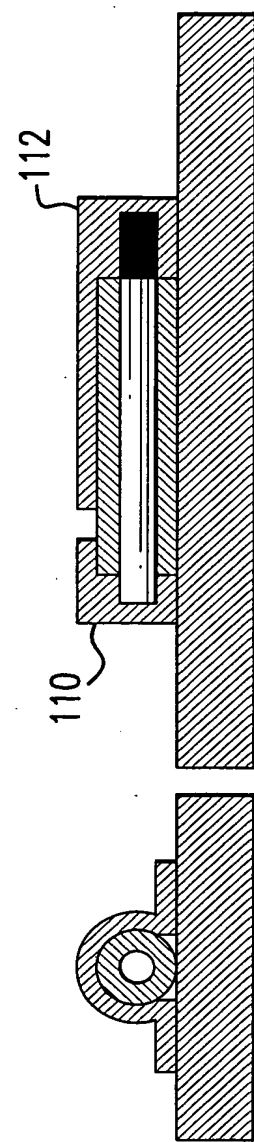
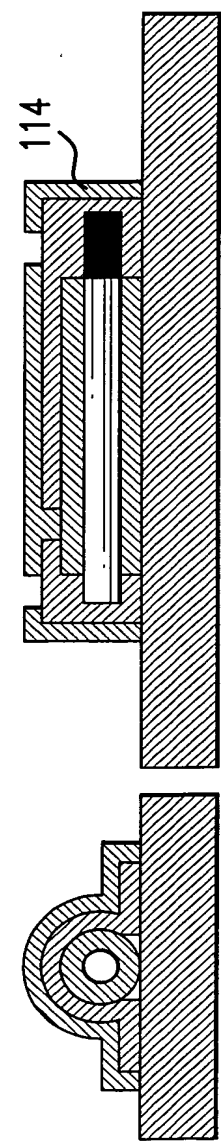


FIG. 1E



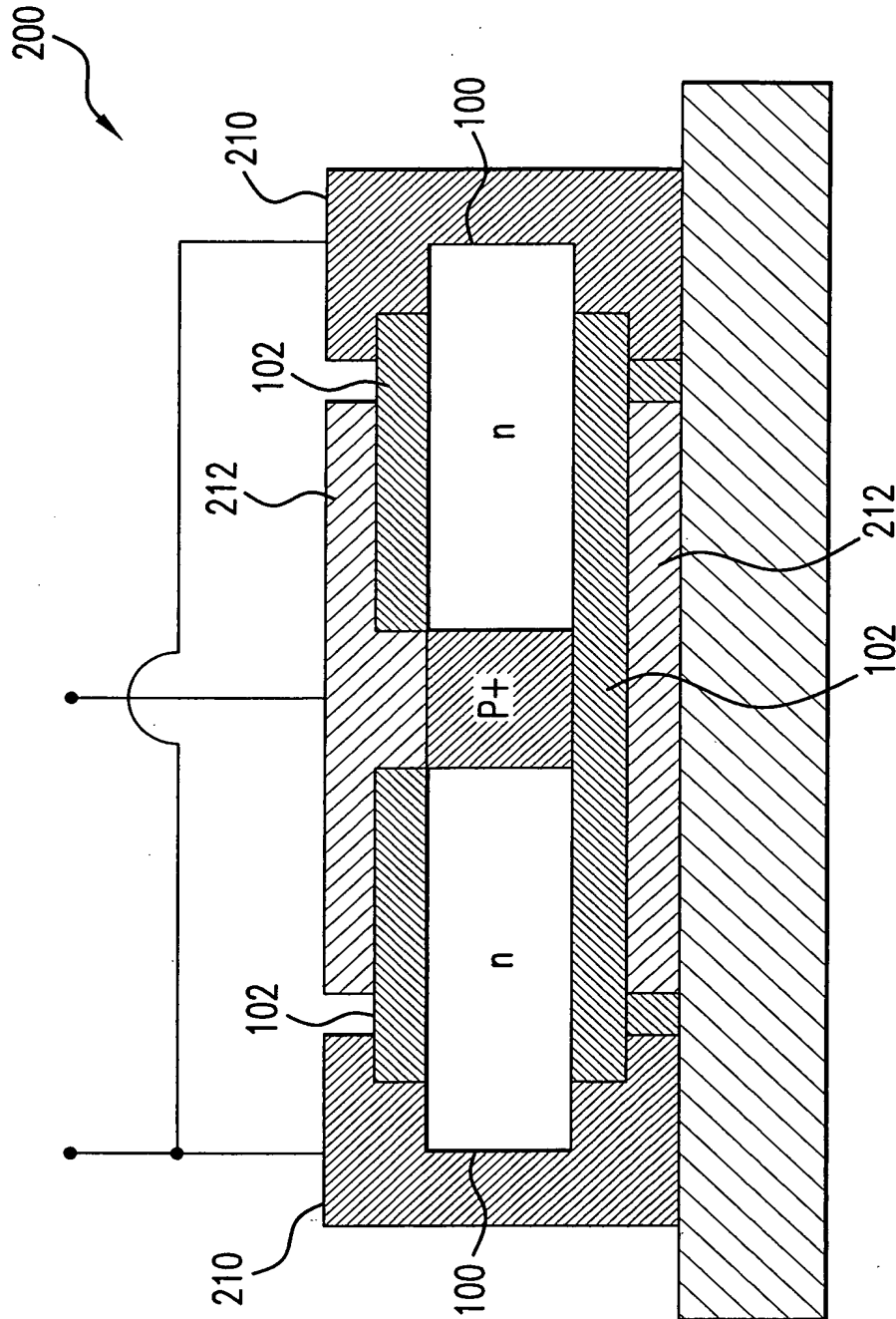


FIG. 2A

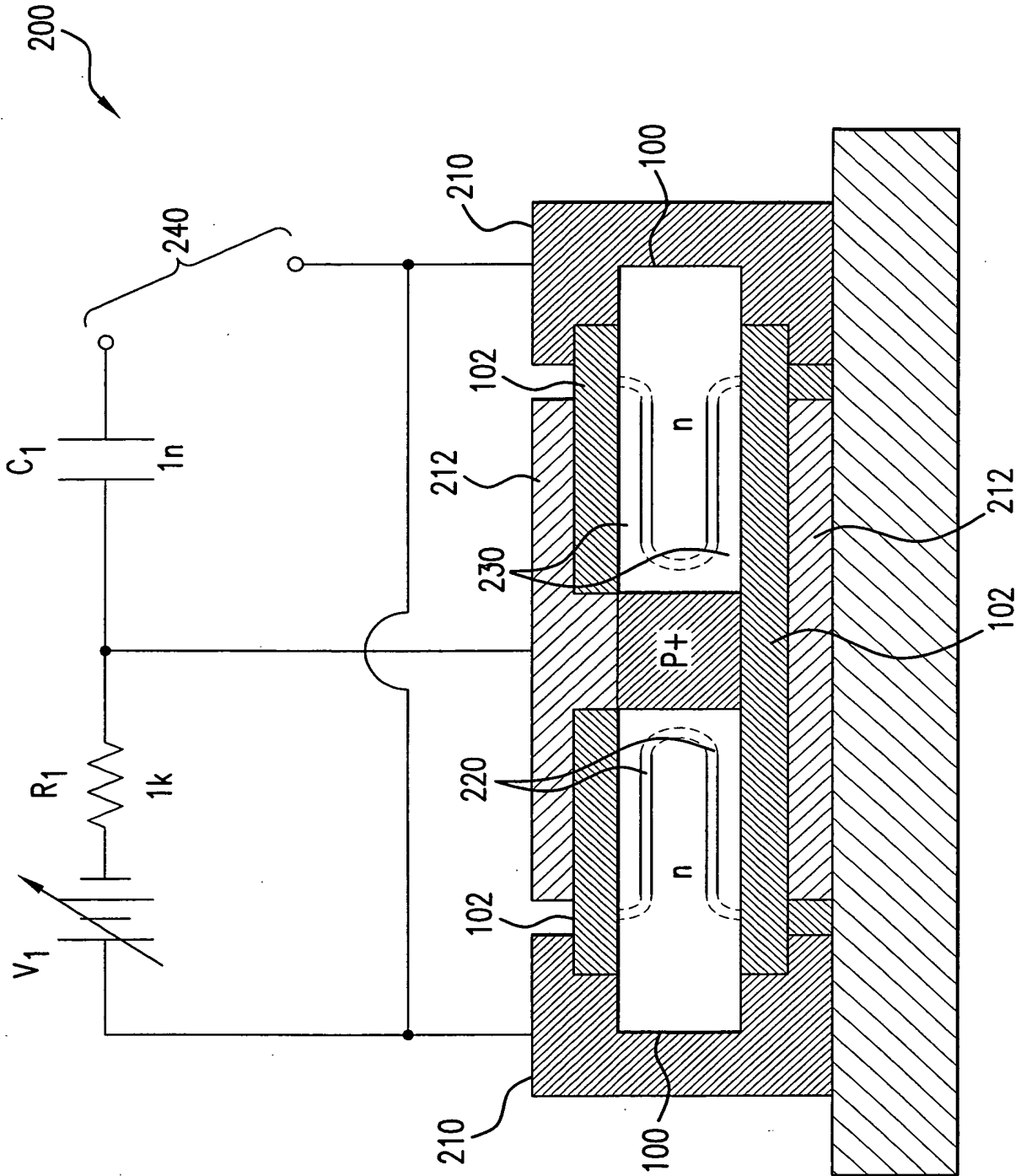


FIG. 2B

DIAMETER OF Si NANOWIRE THAT CAN BE FULLY DEPLETED AS A FUNCTION OF DOPING CONCENTRATION
 $d^2 = 32 * (\epsilon_0 \epsilon_{Si} / N) / q * E_f$, $E_f = kT / q * \ln(N / n_i)$. N: DOPING CONCENTRATION

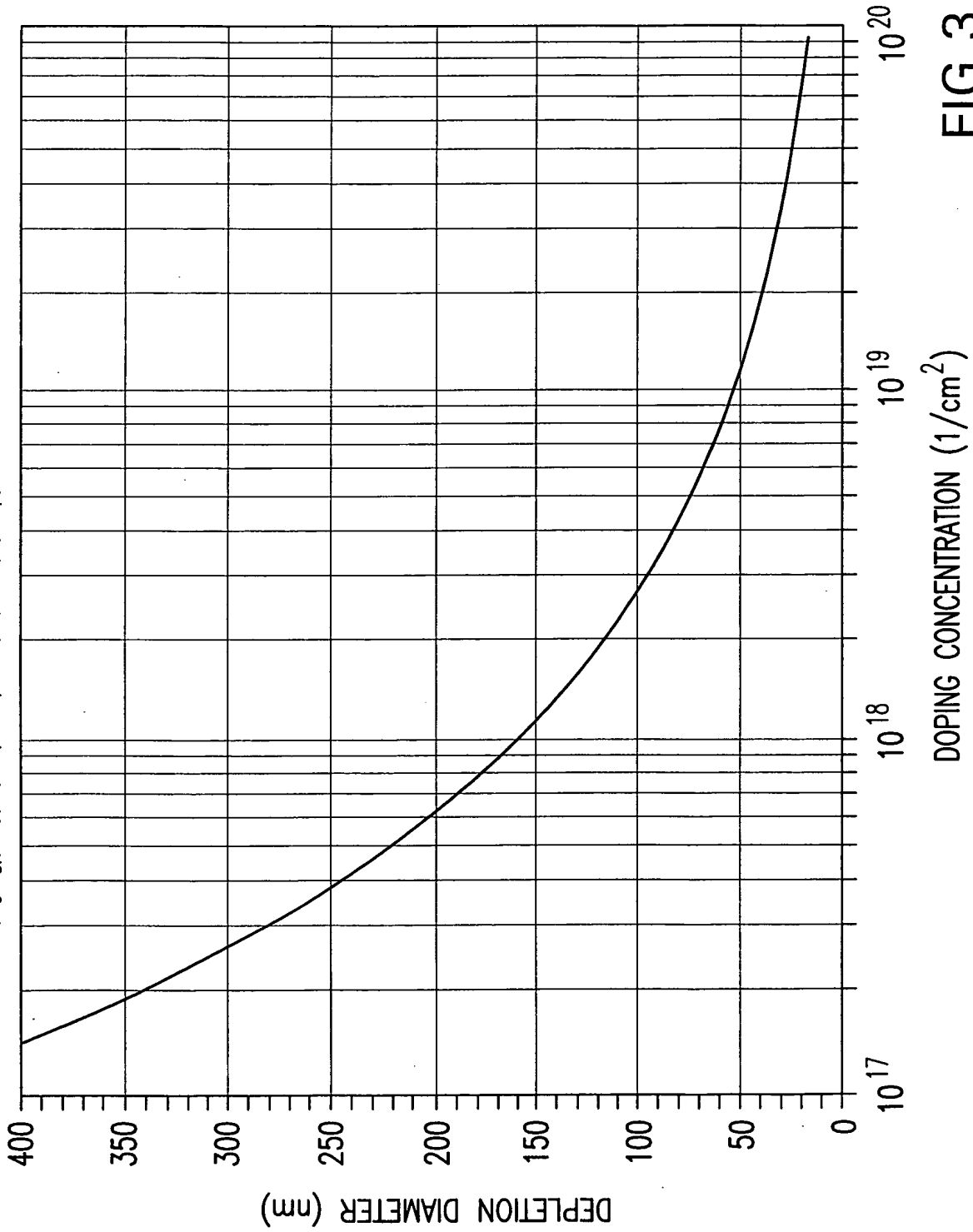


FIG.3